

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	23	("4127758"   "4378478"   "4716262"   "4814561"   "5212356"   "5215187"   "5220521"   "5340956"   "5358344"   "5386091"   "5389757"   "5595449").PN. OR ("5717429").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 07:31
L5	14	("4647729"   "5145058"   "5164553"   "5401929"   "5456541"   "5461376"   "5532904").PN. OR ("5694124").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 07:34
L6	13	("3169701"   "3962556"   "4188136").PN. OR ("4830526").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 07:47
L7	35	("2265496"   "2430064"   "2506140"   "2687015"   "2749757"   "2755671"   "2755672"   "2896987").PN. OR ("3767022").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 08:04
L8	60	("0793462"   "1218760"   "2619215"   "2973079"   "3448419"   "3480744"   "3693775"   "3736397"   "3767022"   "3805939"   "3964593"   "3964594"   "4039068"   "4247208"   "4362408"   "4381691"   "4734679"   "4791257"   "4906117"   "4948281"   "4969403"   "5088668"   "5119078"   "5129747"   "5131614"   "5180237"   "5183346"   "5220318"   "5228791"   "5230345"   "5268545"   "5273250"   "5278779"   "5287090"   "5290115"   "5352050"   "5391006"   "5405204"   "5421543"   "5428368"   "5434566"   "5439192"   "5445349"   "5494363"   "5525979"   "5535091"   "5588760"   "5600361"   "5626222"   "5676476"   "5677826"   "5879088"   "5899616"   "5933133").PN. OR ("6791480").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 08:05
L12	594	(small\$3) near2 (keypad key adj pad keyboard key adj board)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 08:31
L13	4	(tier\$3) near2 (keypad key adj pad keyboard key adj board)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 08:31
L14	0	(teir\$3) near2 (keypad key adj pad keyboard key adj board)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 08:49
L15	10066	((400/472-496) or (345/168-172) or (341/22-33) or (361/680)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/01 10:20

## EAST Search History

L16	188	(tier\$3) with (keypad keyboard key adj (pad board))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 08:34
L17	104	16 not (music\$3 instrument)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 08:36
L18	2	10/331,868	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 08:36
L19	7	("4563550"   "4597681"   "5274217"   "5564844"   "5735618"   "6151012"   "6256018").PN. OR ("6752551").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 08:36
L20	84	("3622720"   "3940758"   "4075702"   "4264962"   "4395704"   "4517660"   "4597681"   "4703160"   "4742478"   "4796977"   "4799771"   "4882471"   "4903221"   "4918632"   "4926365"   "4939514"   "4959887"   "4969830"   "5002184"   "5021922"   "5067834"   "5087910"   "5103376"   "5109354"   "5119078"   "5122876"   "5163765"   "5187644"   "5196993"   "5233502"   "5235495"   "5241451"   "5260885"   "5267127"   "5268817"   "5278779"   "5285398"   "5295089"   "5321579"   "5325984"   "5333116"   "5335142"   "5340073"   "5345362"   "5347477"   "5363227"   "5363276"   "5375076"   "5383138"   "5410333"   "5410447"   "5416730"   "5457453"   "5469194"   "5494447"   "5574481"   "5844543").PN. OR ("6151012").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 08:36
L21	3	"57097138"	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 08:49
L22	2	"01163935"	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 08:50
L23	1	"01306909"	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 08:50
L24	61378	G06F003/023.ipc. G06F003/023.epc. G06F003/02.ipc. G06F003/02.epc. keyboard.ti. key adj board.ti.	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 12:19
L25	10390	tier\$3	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 09:46
L26	29	24 and 25	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 09:49

## EAST Search History

L27	44409	(second upper lower two) near2 (board circuitboard)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 09:52
L28	207	24 and 27	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 09:49
L29	18474	(second upper lower two) near1 (board circuitboard)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 09:52
L30	91	24 and 29	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 10:02
L31	1	("5774384").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/01 10:02
L32	23	("5067834"   "5318367"   "5439304"   "5490037"   "5543787"   "5602715"   "5610602"   "5635928"   "5646817"). PN. OR ("5774384").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 10:14
L33	1	("3893235").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/01 10:18
L34	92	24 and stepped	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 10:19
L35	58	longer near1 stem	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 10:19
L36	694	24 and "58"	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 10:20
L37	3	24 and 35	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 10:20
L38	0	15 and 2tem	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 10:21
L39	479	15 and stem	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 10:21
L40	5	15 and stem near1 longer	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 10:21
L41	7	("3396827").URPN.	USPAT	OR	ON	2006/11/01 10:22

## EAST Search History

L64	776	(phone telephone mobil near1 communications near1 (device apparatus)).ab. and (keyboard key adj board).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 11:16
L65	788	(phone telephone mobile near1 communications near1 (device apparatus)).ab. and (keyboard key adj board).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 11:16
L66	11700445	@pd<"20040408"	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 11:17
L67	590	65 and 66	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 11:36
L68	94	(ball sphere) near2 (stem post) with (key keycap)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 11:36
L69	0	15 and 68	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 11:36
L70	918	(ball sphere) near2 (shaft pin stem post) with (key key capbutton pushbutton switch)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 11:37
L71	1109	(ball sphere) near2 (shaft pin stem post) with (key key adj cap button pushbutton switch)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 12:19
L72	6	15 and 71	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 11:37
L73	259	(ball sphere) near2 (shaft pin stem post) with (key key adj cap button pushbutton switch)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 12:19
L74	0	73 and 24	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 12:19
L75	11625	(ball sphere) near2 (shaft pin stem post)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 12:19
L76	22086	(ball sphere) near4 (shaft pin stem post)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 12:22
L77	13	76 and 24	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 12:20
L78	25644	(ball spher\$4 spheroidal spherical) near4 (shaft pin stem post)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 12:50

## EAST Search History

L79	3558	78 not 76	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 12:23
L80	2	79 and 24	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 12:23
L81	83808	(ball spher\$4 spheroidal spherical) near4 (shaft pin stem post)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 14:56
L82	84	15 and (ball spher\$4 spheroidal spherical) near4 (shaft pin stem post) not 72	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 12:27
L83	1397	(400/490-496).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/01 12:27
L84	941035	(ball spher\$4 spheroidal spherical)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 12:46
L85	88	83 and 84	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 12:36
L86	1	("4,597,681").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/01 12:36
L87	1	("2485213").URPN.	USPAT	OR	ON	2006/11/01 12:43
L88	2257	(200/512-517,5A).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/01 12:45
L89	279	88 and 84	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 12:45
L90	107376	(ball spher\$4 spheroidal spherical) near4 (stem rod pin shaft shaft)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 12:47
L91	19	88 and 90	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 12:47
L92	13026	H01H013/70.ipc. H04M001/23.ipc. H01H013/70.epc. H04M001/23.epc.	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 14:36
L93	34646	(ball spher\$4 spheroidal spherical) near4 (shaft pin stem post rod)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 14:22
L94	7	93 and 92	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 12:50

## EAST Search History

L95	4697	(round\$2 curv\$3) near2 (end portion section element piece actuator) near4 (shaft pin stem post rod)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 14:48
L96	1	92 and 95	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 14:37
L97	5	24 and 95	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 14:11
L102	173939	H01H013/\$.ipc. H04M001/\$.ipc. H01H013/\$.epc. H04M001/\$.epc.	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 14:37
L103	66	102 and (93 95)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 14:37
L104	57	103 not 94 not 96 not 97	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 14:37
L105	26628	(round\$2 curv\$3) near2 (end portion section element piece actuator) near4 (shaft pin stem post rod)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 14:49
L106	3003	(200/520-536).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/01 14:49
L107	35	105 and 106	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 14:49
L108	17	81 and 106	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 14:54
L109	116759	(ball spher\$4 spheroidal spherical) near4 (contact dome elastic spring)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 15:15
L114	99	106 and 109	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 15:04
L115	26	("3306998"   "3917917"   "3996429"   "4146767"   "4385218"   "4400596"   "4412113").PN. OR ("4484042").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 15:08
L116	12	83 and 109	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 15:15
L118	5	(US-7067757-\$ or US-7084359-\$ or US-5457453-\$ or US-3767022-\$ or US-4894498-\$).did.	USPAT	OR	ON	2006/11/01 15:37

## EAST Search History

L119	1	("20030153355").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/01 15:37
L120	6	118 119	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/01 15:37
S1	14	("20030098853" "4500758" "4524249"  "4778952" "4803321" "4845319" "49 18271" "5212356" "5294758" "538975 7" "6080941" "6268578" "6525278" "6 670562").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 07:32
S2	1	g06f002/023.ipc. g06f002/023.epc. g06f002/02.ipc. g06f002/02.epc.	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 07:33
S3	61378	G06F003/023.ipc. G06F003/023.epc. G06F003/02.ipc. G06F003/02.epc. keyboard.ti. key adj board.ti.	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 09:46
S4	63773	(first upper) near2 (board circuitboard substrate support) and (second lower) near2 (board circuitboard substrate support)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:54
S5	145	S3 and S4	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:55
S6	13026	H01H013/70.ipc. H04M001/23.ipc. H01H013/70.epc. H04M001/23.epc.	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 12:50
S7	79175	S4 adn S6	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 07:41
S8	230	S4 and S6	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 07:50
S9	181	S8 not S5	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 07:55
S10	1	("6462294").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/31 07:55
S11	28	("4317011"   "4326930"   "4400595"   "4461934"   "4499662"   "4532575"   "4620075"   "4633050"   "4714804"   "4771143"   "4801768"   "4847452"   "4870751"   "4876145"   "4937408"   "5193668"   "5234744"   "5397867"   "5467068"   "5561278"   "5655826"   "5734137"   "5911317"   "6084190"   "6196738").PN. OR ("6462294").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 08:10

## EAST Search History

S12	25	"4163138"	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 08:10
S13	1	("4163138").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/31 08:10
S14	31	("3701869"   "3777222"   "3811025"   "4056699"   "4060703"   "4071718"   "RE29440").PN. OR ("4163138"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 08:10
S15	51	(first upper) near2 (board circuitboard substrate support) and (second lower) near2 (board circuitboard substrate support)	IBM_TDB	OR	ON	2006/10/31 08:16
S16	2541	keypad key adj pad keyboard key adj board	IBM_TDB	OR	ON	2006/10/31 08:17
S17	1	S15 and S16	IBM_TDB	OR	ON	2006/10/31 08:16
S18	8	(compact miniature) near2 (keypad key adj pad keyboard key adj board)	IBM_TDB	OR	ON	2006/10/31 08:21
S19	293	(switch contact) near2 (different) near2 (level plane height)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 08:21
S20	9	S19 and S3	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 08:19
S21	980	(switch contact) near2 (alternating\$3)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 08:21
S22	1	S3 and S21	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 08:21
S23	303	(compact miniature) near2 (keypad key adj pad keyboard key adj board)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 08:29
S24	242	S3 and S23	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 08:41
S25	1	("6623195").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/31 08:41
S26	16	("20020018683"   "5044798"   "5463195"   "5590020"   "5602715"   "5635928"   "5767464"   "5799772"   "5800085"   "5842798"   "6092944"   "6107584"   "6257782"   "6331850"   "6388219").PN. OR ("6623195").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 08:41



## EAST Search History

S27	13026	H01H013/70.ipc. H04M001/23.ipc. H01H013/70.epc. H04M001/23.epc.	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:33
S28	105240	(keypad key adj pad keyboard key adj board)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:34
S29	4655	S27 and S28	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:34
S30	19112	(contact switch) near2 (adjacent different alternating\$3)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:34
S31	55	S29 and S30	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:39
S32	2	jp-11007861-\$.did.	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:45
S33	25	length near2 (key) near2 (stem shaft pin)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:46
S34	6	length near2 (keycap or pushbutton button) near2 (stem shaft pin)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:46
S35	61378	G06F003/023.ipc. G06F003/023.epc. G06F003/02.ipc. G06F003/02.epc. keyboard.ti. key adj board.ti.	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:46
S36	213	S35 and stem	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:47
S37	63773	(first upper) near2 (board circuitboard substrate support) and (second lower) near2 (board circuitboard substrate support)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 13:51
S38	206380	(another two second lower) near2 (board circuitboard substrate support)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:54
S39	833	S38 and (S27 or S35)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 11:12
S40	61378	G06F003/023.ipc. G06F003/023.epc. G06F003/02.ipc. G06F003/02.epc. keyboard.ti. key adj board.ti.	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:55
S41	63773	(first upper) near2 (board circuitboard substrate support) and (second lower) near2 (board circuitboard substrate support)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:55

## EAST Search History

S42	145	S40 and S41	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:55
S43	688	S39 not S42	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:56
S44	22287423	@pd<"20040804"	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:57
S45	587	S43 and S44	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 10:56
S46	21867716	@pd<"20040408"	FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 11:17
S47	568	S43 and S46	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 11:03
S48	1421861	key button pushbutton switch	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 11:19
S49	326	S47 and S48	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 11:11
S50	14030	contact with (different second) near2 layer	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 11:12
S51	48	S50 and (S27 or S35)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 11:12
S52	549	(overlap overlapping overlaped overlapped) near2 (key button pushbutton switch)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 16:39
S53	83	S52 and (S27 or S35)	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 11:22
S54	4368	(400/472-496).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/31 11:22
S55	41	S54 and colilla	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 11:22

## EAST Search History

S56	22	("20020039165"   "3940758"   "4395704"   "4661005"   "5044798"   "5212473"   "5523755"   "5532904"   "5575576"   "5590020"   "5708428"   "5880685"   "5941648"   "5943041"   "5971637"   "6026283"   "6172620"   "6249586"   "6256017"   "6262883"   "6288895"   "6400351").PN. OR ("6939065").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 11:23
S57	61	("3940758"   "4395704"   "4517660"   "4939514"   "5212473").PN. OR ("5575576").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 11:49
S58	1	("5575576").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/31 12:58
S59	10066	((400/472-496) or (345/168-172) or (341/22-33) or (361/680)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/01 08:32
S60	2545	(overlap overlapping overlaped overlapped) near2 (key button pushbutton switch)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 12:59
S61	107	S59 and S60	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 12:59
S62	50	("20020025837"   "20030107554"   "3668337"   "3870840"   "3909564"   "3999025"   "4357646"   "4376238"   "4400593"   "4490587"   "4549279"   "4604509"   "4634818"   "4680577"   "4839474"   "4891777"   "4899137"   "4912462"   "4994992"   "5124689"   "5269004"   "5278557"   "5311175"   "5329079"   "5358344"   "5457454"   "5459461"   "5465290"   "5486823"   "5491745"   "5528235"   "5535421"   "5612690"   "5635958"   "5638092"   "5691716"   "5793312"   "5852414"   "5861588"   "5861823"   "5973621"   "6037882"   "6107997"   "6204839"   "6259044"   "6377685"   "6535200"   "6639162"   "6891529"   "RE32419").PN. OR ("7126498").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 13:46
S63	11	("3940758" "5189632" "5715524" "5742894" "5898758" "6038313" "6046730" "6115616" "6180895" "6550927" "D448032" "D448032").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 13:46
S64	150271	(first upper) near2 (board circuitboard substrate membrane) and (another two second lower) near2 (board circuitboard substrate membrane)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 15:09

## EAST Search History

S65	284	S59 and S64	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 14:03
S66	23	key near2 (stem pin shaft) near4 (aperture hole orifice) near2 (board circuitboard support substrate membrane)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 14:04
S67	24	(keycap key) near2 (stem pin shaft) near4 (aperture hole orifice) near2 (board circuitboard support substrate membrane)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 15:04
S68	20	(plural\$3 multipl\$3 two three another second third) near2 (support near1 (plate structure board) circuit adj board circuitboard membrane) near2 (dome elastic) near1 (switch)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 15:05
S69	5340	(upper) near2 (board circuitboard) and (lower) near2 (board circuitboard)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 15:09
S70	0	S69 and (S27 or S35)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 15:10
S71	30	S69 and S59	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 15:10
S72	16	("20030160712"   "20040005183"   "3796843"   "3808384"   "3831063"   "3893235"   "4074088"   "4125934"   "5717176"   "6180895"   "6274825"   "6303887"   "6614905"   "6670893"   "6680676"   "6744890").PN. OR ("7067757").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 15:22
S73	5	("5189632"   "5857157"   "6272324"). PN. OR ("6744890").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 15:25
S74	10	("4806908"   "5189632"   "5564078"   "5584054"   "5715524"   "5742894"   "6038313"   "6046730"   "6542606"). PN. OR ("6670893").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 15:27
S75	12	"472361"	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 15:29
S76	0	jp-1187718-\$	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 15:29
S77	2	jp-11087718-\$	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 15:34

## EAST Search History

S78	7	(multitier\$3 multilevel\$3 multi-tier\$3 multi-level\$3 (plural\$3 multiple) near1 (level) bilevel bi-level) near4 (keypad keyboard key adj (pad board))	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 15:37
S79	66	(multitier\$3 multilevel\$3 multi-tier\$3 multi-level\$3 (plural\$3 multiple) near1 (level) bilevel bi-level) near4 (keypad keyboard key adj (pad board))	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2006/10/31 15:37
S80	0	("2006/0131157").URPN.	USPAT	OR	ON	2006/10/31 15:38
S81	278	(200/344).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/31 15:55
S82	641	(200/512).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/31 15:55
S83	632	S82 not S81	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 15:57
S84	1	("7026566").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/31 15:57
S85	7	("20020054676"   "5115108"   "5717176"   "5952629"   "6303887"   "6653586"   "6670562").PN. OR ("7026566").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 16:01
S86	7	("20020054676" "5115108" "5717176" "5952629" "6303887" "6653586" "6670562").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 16:01
S87	7	("5115108"   "5693950"   "5719361"   "6437259"   "6653586"   "6670562"   "6737592").PN. OR ("7084359").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 16:25
S88	10	(first near1 substrate) near2 key and second near1 substrate near2 key	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 16:26
S89	10	("3940758"   "5715524"   "5742894"   "5898758"   "6038313"   "6115616"   "6180895"   "6550927"   "D448032").PN. OR ("6760015").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 16:35
S90	6	"156651"	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 16:41
S91	4	"11076615"	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 16:41
S92	0	jp11076615	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 16:41

## EAST Search History

S93	0	jp1176615	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 16:43
S94	2	jp-11087718-\$.did.	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 16:45
S95	8	"9803962"	FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 16:45
S96	13	("3940758"   "5715524"   "5742894"   "6038313"   "D448032").PN. OR ("6630925").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 17:07
S97	1	("5933320").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/31 17:21
S98	934	(400/490-495.1).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/31 17:21
S99	11700445	@pd<"20040408"	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 17:22
S10 0	848	S98 and S99	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 17:22